Arc Plate:

Diameter = 160mm

Diameter of arc slots = 3mm

Mass = 63.27 grams

Volume = 63265.19 cubic millimeters

Surface area = 42769.41 square millimeters

Principal axes of inertia and principal moments of inertia: (grams * square millimeters)

Taken at the center of mass.

    Ix = (1.00, 0.00, 0.00)   Px = 105645.96
    Iy = (0.00, 1.00, 0.00)   Py = 105645.96
    Iz = (0.00, 0.00, 1.00)   Pz = 211162.74

Moments of inertia: (grams * square millimeters)

Taken at the center of mass and aligned with the output coordinate system.

    Lxx = 105645.94   Lxy = 0.00   Lxz = 0.00
    Lyx = 0.00   Lyy = 105645.97   Lyz = 0.00
    Lzx = 0.00   Lzy = 0.00   Lzz = 211162.74

Moments of inertia: (grams * square millimeters)

Taken at the output coordinate system.

    Ixx = 105645.94   Ixy = 0.00   Ixz = 0.00
    Iyx = 0.00   Iyy = 105645.97   Iyz = 0.00
    Izx = 0.00   Izy = 0.00   Izz = 211162.74

Output shaft:

Diameter = 8mm

Density = 0.00 grams per cubic millimeter

Mass = 1.93 grams

Volume = 1926.93 cubic millimeters

Surface area = 1208.18 square millimeters

Principal axes of inertia and principal moments of inertia: (grams * square millimeters)

Taken at the center of mass.

    Ix = (0.00, 0.00, 1.00)   Px = 12.45
    Iy = (0.64, -0.77, 0.00)   Py = 343.81
    Iz = (0.77, 0.64, 0.00)   Pz = 343.86

Moments of inertia: (grams * square millimeters)

Taken at the center of mass and aligned with the output coordinate system.

    Lxx = 343.84   Lxy = -0.02   Lxz = 0.09
    Lyx = -0.02   Lyy = 343.84   Lyz = -0.11
    Lzx = 0.09   Lzy = -0.11   Lzz = 12.45

Moments of inertia: (grams * square millimeters)

Taken at the output coordinate system.

    Ixx = 3444.88   Ixy = -0.02   Ixz = -0.31
    Iyx = -0.02   Iyy = 3444.87   Iyz = 0.38
    Izx = -0.31   Izy = 0.38   Izz = 12.45